

IN THE CLAIMS:

Please amend claims 1-6, 8-13, and add new claims 14-15 as follows:

1. (Currently Amended) A method for displaying a dendrogram comprising the steps of:
 clustering a plurality ~~[[of]]~~ types of biopolymers based on a set of data obtained by experiments of the plurality types of biopolymers under different conditions, and displaying ~~[[the]]~~ clustering results thereof in a form of a dendrogram format;
 selecting a subtree in the dendrogram; and
 displaying the selected subtree on a separate window thereby grouping biopolymers in the selected subtree into at least one function unit or function group.
2. (Currently Amended) A method for displaying a dendrogram according to claim 1, further comprising the steps of:
 designating a different clustering method for ~~[[the]]~~ biopolymers included in the subtree displayed on the separate window; and
 secondarily clustering the biopolymers included in the subtree ~~[[again]]~~ according to the designated clustering method, and displaying ~~[[the]]~~ secondarily clustering results thereof in a form of a dendrogram format.
3. (Currently Amended) A method for displaying a dendrogram comprising the steps of:
 clustering a plurality ~~[[of]]~~ types of biopolymers based on a set of data obtained by experiments of the plurality types of biopolymers under different conditions, and displaying ~~[[the]]~~ clustering results thereof in a form of a dendrogram format;
 selecting a subtree in the dendrogram; ~~[[and]]~~
 replacing the selected subtree with an icon in the dendrogram thereby grouping biopolymers in the selected subtree into at least one function unit or function group.
4. (Currently Amended) A method for displaying a dendrogram according to claim 3, further comprising a step of restoring the ~~subtree~~ icon back to the ~~original dendrogram~~ subtree in the dendrogram format.

5. (Currently Amended) A method for displaying a dendrogram comprising the steps of:
clustering a plurality ~~[[of]]~~ types of biopolymers based on a set of data obtained by experiments of the plurality types of biopolymers under different conditions, and displaying ~~[[the]]~~ clustering results thereof in a form of a dendrogram ~~format~~;
selecting a subtree in the dendrogram; and
~~from the biopolymers included~~ in the selected subtree, counting and displaying predetermined keywords and a corresponding ~~[[the]]~~ number of biopolymers containing in ~~[[their]]~~ biopolymer information thereof a respective one of the predetermined keywords thereby grouping biopolymers in the selected subtree into at least one function unit or function group ~~from a keyword dictionary file~~.
6. (Currently Amended) A method for displaying a dendrogram comprising the steps of:
clustering a plurality ~~[[of]]~~ types of biopolymers based on a set of data obtained by experiments of the plurality types of biopolymers under different conditions, and displaying ~~[[the]]~~ clustering results thereof in a form of a dendrogram ~~format~~;
selecting a subtree in the dendrogram;
designating ~~[[a]]~~ at least one keyword for the selected subtree; and
displaying the selected subtree and highlighting a location of ~~[[a]]~~ each biopolymer in the selected subtree dendrogram, which includes the designated keyword in ~~[[its]]~~ biopolymer information thereof thereby grouping biopolymers in the selected subtree into at least one function unit or function group.
7. (Original) A method for displaying a dendrogram according to any one of claims 1 to 6, wherein the biopolymers are cDNAs, RNAs, DNA fragments or genes.
8. (Currently Amended) A system for displaying a dendrogram comprising:
a clustering processor for clustering a plurality ~~[[of]]~~ types of biopolymers based on a set of data obtained by experiments of the plurality types of biopolymers under different conditions, and analyzing ~~[[the]]~~ and displaying clustering results thereof ~~to display them~~ in a form of a dendrogram ~~format~~;
a display system for displaying the dendrogram and for displaying on a separate

window a subtree selected by a user thereby grouping biopolymers in the selected subtree into at least one function unit or function group; and

a keyword dictionary file for storing keywords of biopolymer information associated with each of the plurality types of biopolymers.

9. (Currently Amended) A system for displaying a dendrogram according to claim 8, further comprising a function of displaying a subtree selected by the input means for selecting the subtree by the user on a separate window.
10. (Currently Amended) A system for displaying a dendrogram according to claim ~~[[9]]~~ 8, further comprising a function of means for designating a different clustering method for the subtree displayed on the separate window to secondarily cluster the biopolymers included in the subtree again according to the designated clustering method, and displaying ~~[[the]]~~ secondarily clustering results thereof in a form of a dendrogram format.
11. (Currently Amended) A system for displaying a dendrogram according to any one of claims 8 to 10, ~~wherein the system comprises a function of~~ further comprising means for replacing the selected subtree selected by the input means with an icon, and a function of means for restoring the subtree icon back to the original subtree in the dendrogram format..
12. (Currently Amended) A system for displaying a dendrogram according to any one of claims 8 to ~~[[11]]~~ 10, ~~wherein the system comprises a function of~~ further comprising one of means for counting and displaying predetermined keywords retrieved from the keyword dictionary file and a corresponding ~~[[the]]~~ number of biopolymers containing in ~~[[their]]~~ biopolymer information thereof a respective one of the predetermined keywords from a keyword dictionary file, and/or a function of displaying highlighting a location of ~~[[a]]~~ each biopolymer in the selected subtree dendrogram, which includes the designated predetermined keywords in the biopolymer information thereof.

13. (Currently Amended) A system for displaying a dendrogram according to any one of claims 8 to ~~[[12]]~~10, wherein the biopolymers are cDNAs, RNAs, DNA fragments or genes.
14. (New) A method for displaying a dendrogram according to claim 5, wherein the counting step involves counting synonyms of the respective one of the predetermined keywords.
15. (New) A system for displaying a dendrogram according to claim 12, wherein the means for counting and displaying counts synonyms of each of the predetermined keywords.